

22C:16 Quiz 4
Date: Feb 14th, 2012

1. Write down the value and type of each of these expressions. Assume that `x` is a variable of type `int` and has value 25. Also assume that the `math` module has been imported before these expressions are executed.

(a) `x < 10 or x > 100 or 25 == x`
True

(b) `-1**4*2**4`
-16

(c) `20 > x and 100/0 != "hello"`
False

(d) `(x < 30) or 40 and x > 10 or 20`
True

(e) `len(str(math.trunc(678.54)))*2`
9

Please turn the page over for the second problem.

2. Write down the output produced by the following program.

```
x = 10
while x < 100:
    y = x + 10
    while y < 100:
        print x*y
        y = 2*y

    x = x + 30
```

200
400
800
2000
5600